



Department of Energy

Yucca Mountain Project Office P. O. Box 98608 Las Vegas, NV 89193-8608

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SEP 20 1990

John J. Linehan, Director Repository Licensing Project Directorate Division of Waste Management U.S. Nuclear Regulatory Commission 4-H-3 Washington, DC 20555

INFORMATION ON U.S. DEPARTMENT OF ENERGY/U.S. NUCLEAR REGULATORY COMMISSION (DOE/NRC) TECHNICAL EXCHANGE ON UNSATURATED ZONE HYDROLOGY AND HYDROCHEMISTRY

A DOE/NRC technical exchange on Unsaturated Zone Hydrology and Hydrochemistry has been scheduled for September 26-27, 1990, in Denver, Colorado. The meeting will take place at the Stapleton Plaza Hotel, (303) 321-3500, in the Arapahoe A meeting room from 8:30 a.m. to 5 p.m. both days. A block of rooms has been reserved at the hotel at a government rate of \$52 plus tax. Reservations must be made by Friday, September 21, 1990. Attendees should identify themselves with the "Department of Energy/Nuclear Regulatory Commission" meeting when registering. The hotel is directly across from the airport and has a shuttle which runs every 15 minutes.

If you have further questions about the logistics of this meeting, please contact Ardyth M. Simmons of my staff at (702) 794-7998 or FTS 544-7998.

Carl P. Gertz, Project Manager Yucca Mountain Project Office

RSED; AMS-5047

Enclosure: Meeting Agenda

cc w/encl:

D. E. Shelor, HQ (RW-30) FORS

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Corinne Macaluso, HQ (RW-30) FORS

C. H. Johnson, NWPO, Carson City, NV

Daniel Gillies, USGS, Denver, CO

L. R. Hayes, USGS, Las Vegas, NV

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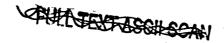
Marvin Saines, Harza, Las Vegas, NV

L. J. Jardine, LLNL, Livermore, CA

R. J. Herbst, LANL, Los Alamos, NM

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T. O. Hunter, SNL, 6310, Albuquerque, NM



109 WM-NHOI September 17, 1990

AGENDA

DOE-NRC TECHNICAL EXCHANGE ON UNSATURATED ZONE HYDROLOGIC CHARACTERIZATION

September 26-27, 1990 Wednesday 8:30 - 5:00 PM Thursday 8:30 - 4:00 PM

Stapleton Plaza Hotel - Arapahoe "A"
Denver, Colorado

FURPOSE: To discuss the planned unsaturated zone (UZ) hydrologic and hydrochemical tests described in the SCP and, to the extent possible, NRC's Site Characterization Analysis (SCA) comments that relate to these planned tests. In addition, the UZ Hydrology Peer Review results will be discussed.

SCOPE: This technical exchange will focus on planned testing to acquire hydrologic transport information at the site. Specifically, hypotheses and questions related to fracture vs. matrix flow and how the hypotheses will be tested during site characterization will be discussed.

Wednesday, September 26, 1990

	Agenda Topic	Discussion Leader	
	Opening remarks	DOE,	NRC, State
0	Introduction		DOE
0	Synopsis of UZ Hydrology Peer Review		DOE
	Discussion		all
0	Comments on Site Characterization of the UZ		NRC
	Discussion	•	all
0	Review of conceptual models of flow and flow processes in the UZ		DOE
	Discussion		all
0	Spatial variability and representativeness of hydrologic properties in the UZ		DOE
	Discussion		all

DOE-NRC TECHNICAL EXCHANGE ON UNSATURATED ZONE HYDROLOGIC CHARACTERIZATION (continued)

	Agenda Topic	Discussion Leader		
0	Deep borehole testing for flow processes	DOE		
	Discussion	all		
0	Air-permeability testing	DOE		
	Discussion	all		
0	Geochemical and isotopic methods for determining flow paths and travel time	DOE		
	Discussion	all		
	Adjourn			
		•		
Thursday, September 27, 1990				
	Opening remarks, comments from Day 1	DOE, NRC, State		
0	Small-scale fluid flow in fractured tuffs			
	Discussion	all		
0	UZ infiltration: variability of precipitation input to repository block	DOE		
	Discussion	all		
0	Process-oriented modeling of flow in the UZ	DOE		
	Discussion	all		
0	Site-scale flow modeling and data requirements	DOE		
	Discussion	all		
	Concluding discussion and final remarks	DOE, NRC, State		